

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A device for generating tunable light pulses comprising:

(a) a pulse laser light source for producing femtosecond light pulses having an optical spectrum;

(b) a non-linear optical fiber for modifying the optical spectrum of the femtosecond light pulses, said optical fiber taking advantage of solitonic effects; and

(c) an optical compressor preceding said non-linear optical fiber.

Claim 2 (original): The device according to claim 1, wherein the light pulses coupled into said non-linear optical fiber have a pulse energy of at least one nanojoule.

Claim 3 (currently amended): The device according to claim 1, wherein said optical compressor is adjustable to permit

changing ~~a temporal frequency progression~~ the chirp of the light pulses coupled into said non-linear optical fiber.

Claim 4 (currently amended): The device according to claim 1, wherein said non-linear optical fiber maintains ~~polarity~~ polarization or is dispersion-shifted.

Claim 5 (original): The device according to claim 1, wherein said non-linear optical fiber has a core diameter of less than five micrometers.

Claim 6 (original): The device according to claim 1, wherein said non-linear optical fiber comprises a microstructured photonic fiber.

Claim 7 (original): The device according to claim 1, wherein said non-linear optical fiber has a length of less than one meter.

Claim 8 (original): The device according to claim 1, further comprising an additional optical compressor following said non-linear optical fiber.

Claim 9 (original): The device according to claim 1,
further comprising an optical measuring instrument for
characterization of the light pulses modified by means of said
non-linear optical fiber.